

IN THE CLAIMS:

1. (Currently Amended) [An apparatus] A portable system configured to be carried by an individual for out-of-hospital thrombolytic therapy for substantially preventing the death of a patient's myocardium and early dissolution of a coronary thrombus subsequent to a heart attack, said system comprising:

- a. a library of vials of medication in liquid or lyophilized form including a thrombolytic agent for thrombus dissolution prior to completion of fibrin polymerization, adjuvant drugs for supportive care during the heart attack and a diluent for reconstitution of drugs;
- b. an intravenous needle providing an access to a patient's circulatory system;
- c. a battery operated infusion pump with a set of conduits, on-off and multi-port valves fluidly communicable with the intravenous needle, a source of a diluent, and one or more of the vials [with drugs] in the library;
- d. a battery operated micro cooler adapted for keeping the medication library at reduced temperatures for preservation of their potency over a several year period;
- e. a microprocessor based control unit with a stored set of programs, designed to control operation of the infusion pump and valves to provide priming, drug reconstitution, and preprogrammed intravenous infusion of the thrombolytic agent and supportive drugs;

wherein said system can be activated within thirty minutes after onset of the symptoms of a heart attack and treatment can be started by infusing the thrombolytic agent and adjuvant drugs within thirty minutes after onset of the symptoms of a heart attack..

2. (Currently Amended) [An apparatus for out-of-hospital thrombolytic therapy according to] The system of claim 1, wherein said control unit is adapted for remote programming via the Internet, by a local operator [perator], or by the patient.

3. (Cancelled)

4. (Currently Amended) [An apparatus for out-of-hospital thrombolytic therapy according to] The system of claim 1, wherein the temperature in the medication library is kept below 5[.] degree. C.

5. (Currently Amended) [An apparatus for out-of-hospital thrombolytic therapy according to] The system of claim 1, wherein the thrombolytic agent and a schedule of infusion are preselected by a physician for the patient individually.

6. (Currently Amended) [An apparatus] A portable system configured to be carried by an individual for out-of-hospital thrombolytic therapy for substantially preventing the death of a patient's myocardium and early dissolution of a coronary thrombus subsequent to a heart attack, said system comprising:

- a. a thrombolytic agent in lyophilized form and a diluent for its reconstitution;
- b. an intravenous needle providing an access to a patient's circulatory system;
- c. an infusion pump or syringe;

d. a battery operated micro cooler adapted for keeping the thrombolytic agent at reduced temperatures for preservation of its potency over a several year period;

wherein said system can be activated within thirty minutes after onset of the symptoms of a heart attack and treatment can be started by infusing the thrombolytic agent and adjuvant drugs within thirty minutes after onset of the symptoms of a heart attack.

7. (Cancelled)